

Set	Items	Description
S1	4027995	BLUETOOTH OR WIRELESS OR CELLULAR?(N) (TELECOMMUN? OR COMMUNICAT? OR DEVICE? OR UNIT? ?) OR WAP OR MOBILE OR WIRE()LESS - OR WIFI OR CELLPHONE? OR CELL()PHONE?
S2	113821	(CONTEXT? OR ENVIRONMENT? OR SURROUNDING? OR TIME? OR TOUCH? OR LIGHT? OR POSITION? OR COMPASS? OR TEMPERATUR? OR ACCELERATION?) (3N) (SIGNAL? OR INDICATOR? OR CUE?)
S3	2196	S1(3N) (SIGNATURE? OR DIGITAL?()) (SIG OR SIGNING OR SIGNED) - OR PERSONAL() (KEY OR KEYS OR IDENTIFIER OR ID))
S4	2984	S1(3N) (METADATA? OR DATAMIN? OR DATA() (MINE? OR MINING) OR META() (INFORMATION OR DATA) OR TAB OR TAGS OR (LABEL? OR FORMAT?) (N) DATA)
S5	14452725	RECOMMEND? OR SUGGEST? OR OPTION? OR CHOICE? OR SELECTION?
S6	0	S2(10N) (S3 OR S4)
S7	190	(S3 OR S4) (S) (S2 OR S5)
S8	98	RD (unique items)
S9	46	S8 NOT PY>2001
S10	36	S9 NOT PD>20010515
File	15:ABI/Inform(R)	1971-2004/Dec 11 (c) 2004 ProQuest Info&Learning
File	9:Business & Industry(R)	Jul/1994-2004/Dec 13 (c) 2004 The Gale Group
File	610:Business Wire	1999-2004/Dec 13 (c) 2004 Business Wire.
File	810:Business Wire	1986-1999/Feb 28 (c) 1999 Business Wire
File	275:Gale Group Computer DB(TM)	1983-2004/Dec 14 (c) 2004 The Gale Group
File	476:Financial Times Fulltext	1982-2004/Dec 14. (c) 2004 Financial Times Ltd
File	624:McGraw-Hill Publications	1985-2004/Dec 13 (c) 2004 McGraw-Hill Co. Inc
File	621:Gale Group New Prod.Annou.(R)	1985-2004/Dec 14 (c) 2004 The Gale Group
File	636:Gale Group Newsletter DB(TM)	1987-2004/Dec 14 (c) 2004 The Gale Group
File	613:PR Newswire	1999-2004/Dec 13 (c) 2004 PR Newswire Association Inc
File	813:PR Newswire	1987-1999/Apr 30 (c) 1999 PR Newswire Association Inc
File	16:Gale Group PROMT(R)	1990-2004/Dec 14 (c) 2004 The Gale Group
File	160:Gale Group PROMT(R)	1972-1989 (c) 1999 The Gale Group
File	634:San Jose Mercury	Jun 1985-2004/Dec 13 (c) 2004 San Jose Mercury News
File	148:Gale Group Trade & Industry DB	1976-2004/Dec 14 (c) 2004 The Gale Group
File	20:Dialog Global Reporter	1997-2004/Dec 14 (c) 2004 The Dialog Corp.
File	635:Business Dateline(R)	1985-2004/Dec 11 (c) 2004 ProQuest Info&Learning
File	570:Gale Group MARS(R)	1984-2004/Dec 14 (c) 2004 The Gale Group
File	47:Gale Group Magazine DB(TM)	1959-2004/Dec 14 (c) 2004 The Gale group

10/3,K/5 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2004 The Gale Group. All rts. reserv.

3034581 Supplier Number: 03034581 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
DTI trials digital signatures in bid to push mobile commerce  
(For first time ever, UK government is launching a trial of mobile digital  
signatures, starting in 2/01)

New Media Age, p 1

January 25, 2001

DOCUMENT TYPE: Journal ISSN: 1364-7776 (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 300

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...that."

According to Pau, discussions with the DTI to date suggest Governmental  
uptake of mobile digital signatures is likely to expand rapidly.

"One of the points of this trial is to increase...

...essentially tied with the security of m-commerce. There are a lot of  
options, but mobile digital signatures looks the most sensible."

[www.vodafone.com](http://www.vodafone.com)

@RT NMA200101250002

10/3,K/6 (Item 2 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2004 The Gale Group. All rts. reserv.

2754652 Supplier Number: 02754652 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Turbo-charged WAP

(WAP-compliant mobile devices will be the short-term solution to allowing  
secure financial transactions to be conducted; also discusses mobile IP)

Roam, p 14+

February 2000

DOCUMENT TYPE: Journal (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1149

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...authorities, asymmetric encryption and digital signatures.

PKI is widely tipped as the security technology of **choice** for e-commerce.  
According to Datamonitor the market share of this technology will more than

...

...world's first WAP phone to be qualified for secure communications as  
provided by digital **signatures**.

WAP SERVICES

Sonera was the first operator in the world to launch a WAP service. The...

10/3,K/11 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02471409 SUPPLIER NUMBER: 69802277 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
DTI trials digital signatures in bid to push mobile commerce. (Government  
Activity)

Pearse, Justin  
New Media Age, 1  
Jan 25, 2001  
ISSN: 1364-7776 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 328 LINE COUNT: 00029

... all that."

According to Pau, discussions with the DTI to date suggest  
Governmental uptake of mobile digital signatures is likely to expand  
rapidly.

"One of the points of this trial is to increase...

...essentially tied with the security of m-commerce. There are a lot of  
options, but mobile digital signatures looks the most sensible."

10/3,K/20 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

04662920 Supplier Number: 62200011 (USE FORMAT 7 FOR FULLTEXT)

**Chase Gets Positive.**

Bank Technology News, v14, n5, p33

May, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2854

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...a Needham Heights, MA, former subsidiary of GTE Communications Corp. that issues and manages certificates." Cell phones today use digital signatures without digital certificates (for consumers)," Fallon says. Although the signature ensures that the transaction hasn...analyst with GartnerGroup, Stamford, CT, says he has not heard of other digital certificate providers suggesting a remote certificate arrangement. Generally speaking, he adds, certificates represent a "huge improvement"

Set	Items	Description
S1	343360	WIRELESS OR CELLULAR? OR WAP OR MOBILE OR WIRE()LESS? ? OR CELLPHONE? OR CELL()PHONE?
S2	347213	(CONTEXT? OR ENVIRONMENT? OR SURROUNDING? OR TIME? OR TOUCH? OR LIGHT? OR POSITION? OR COMPASS? OR TEMPERATUR? OR ACCELERATION?) (3N) (SIGNAL? OR INDICAT? OR CUE? ?)
S3	12146	SIGNATURE? OR DIGITAL?() (SIG OR SIGNING OR SIGNED) OR PERSONAL() IDENTIFIER?
S4	1613761	METADATA? OR (DEFINITION OR DATA OR META OR FORMAT?) (N) (INFORMATION OR DATA) OR TAG OR TAGS
S5	28139	RECOMMEND? OR SUGGEST? OR OPTIONS OR CHOICES
S6	23	S1 AND S2 AND S3
S7	2852	S1 AND S2 AND S4
S8	9	S5 AND S7
S9	2384	(TRANSMIT? OR TRANSMISSION? OR SEND? OR RECEIV? OR CONVEY?) AND S7
S10	5752	S4 (3N) VECTOR?
S11	5	S9 AND S10
S12	37	S8 OR S11 OR S6
S13	10	S12 AND IC=G06F?
S14	10	S12 AND IC=H04L?
S15	17	S13 OR S14
S16	17	IDPAT (sorted in duplicate/non-duplicate order)
S17	17	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200479  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	2	AU=(SALMENKAITA J? OR SALMENKAITA, J?)
S2	4	AU=(SORVARI A? OR SORVARI, A?)
S3	6	S1 OR S2
S4	3	RD (unique items)
File 2:	INSPEC 1969-2004/Dec W1	(c) 2004 Institution of Electrical Engineers
File 4:	INSPEC 1983-2004/Dec W1	(c) 2004 Institution of Electrical Engineers
File 6:	NTIS 1964-2004/Dec W1	(c) 2004 NTIS, Intl Cpyright All Rights Res
File 8:	Ei Compendex(R) 1970-2004/Nov W4	(c) 2004 Elsevier Eng. Info. Inc.
File 34:	SciSearch(R) Cited Ref Sci 1990-2004/Dec W1	(c) 2004 Inst for Sci Info
File 35:	Dissertation Abs Online 1861-2004/Nov	(c) 2004 ProQuest Info&Learning
File 65:	Inside Conferences 1993-2004/Dec W2	(c) 2004 BLDSC all rts. reserv.
File 636:	Gale Group Newsletter DB(TM) 1987-2004/Dec 13	(c) 2004 The Gale Group
File 275:	Gale Group Computer DB(TM) 1983-2004/Dec 13	(c) 2004 The Gale Group
File 148:	Gale Group Trade & Industry DB 1976-2004/Dec 13	(c) 2004 The Gale Group
File 647:	CMP Computer Fulltext 1988-2004/Dec W1	(c) 2004 CMP Media, LLC

4/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6741646 INSPEC Abstract Number: C2000-12-5620-003  
**Title:** A computer host-based user anomaly detection system using the self-organizing map  
Author(s): Hoglund, A.J.; Hatonen, K.; **Sorvari, A.S.**  
Author Affiliation: Nokia Res. Center, Finland  
Conference Title: Proceedings of the IEEE-INNS-ENNS International Joint Conference on Neural Networks. IJCNN 2000. Neural Computing: New Challenges and Perspectives for the New Millennium Part vol.5 p.411-16 vol.5  
Editor(s): Amari, S-I; Giles, C.L.; Gori, M.; Piuri, V.  
Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA  
Publication Date: 2000 Country of Publication: USA 6  
vol.(xxxvii+371+xxxvi+313+679+630+669+659) pp.  
ISBN: 0 7695 0619 4 Material Identity Number: XX-2000-01710  
U.S. Copyright Clearance Center Code: 0 7695 0619 4/2000/\$10.00  
Conference Title: Proceedings of IEEE-INNS-ENNS International Joint Conference on Neural Networks  
Conference Sponsor: IEEE Neural Network Council; Int. Neural Netwrks Soc.; Eur. Neural Network Soc.; Japanese Neural Network Soc.; AEI - Italian Assoc. Electr. & Electron. Eng.; SIREN - Italian Assoc. Neural Netwrks; AI\*IA - Italian Assoc. Artifical Intelligence  
Conference Date: 24-27 July 2000 Conference Location: Como, Italy  
Language: English  
Subfile: C  
Copyright 2000, IEE

Author(s): Hoglund, A.J.; Hatonen, K.; **Sorvari, A.S.**

4/3,K/2 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

06515718 E.I. No: EIP03367624691  
**Title:** Embedded foresight in RTD programs  
Author: Salo, Ahti; **Salmenkaita, Jukka-Pekka**  
Corporate Source: Systems Analysis Laboratory Helsinki University of Technology, 02015 HUT, Finland  
Source: International Journal of Technology, Policy and Management v 2 n 2 2002. p 167-193  
Publication Year: 2002  
ISSN: 1468-4322  
Language: English

Author: Salo, Ahti; **Salmenkaita, Jukka-Pekka**

Set	Items	Description
S1	424497	BLUETOOTH OR WIRELESS OR CELLULAR? OR WAP OR MOBILE OR WIRELESS OR WIFI OR CELLPHONE? OR CELL()PHONE?
S2	47649	(CONTEXT? OR ENVIRONMENT? OR SURROUNDING? OR TIME? OR TOUCH? OR LIGHT? OR POSITION? OR COMPASS? OR TEMPERATUR? OR ACCELERATION?) (3N) (SIGNAL? OR INDICATOR? OR CUE?).
S3	49242	SIGNATURE? OR DIGITAL? () (SIG OR SIGNING OR SIGNED) OR PERSONAL() (KEY OR KEYS OR IDENTIFIER OR ID)
S4	36385	METADATA? OR DATAMIN? OR DATA() (MINE? OR MINING) OR META() - (INFORMATION OR DATA) OR TAB OR TAGS OR (LABEL? OR FORMAT?) (N-) DATA
S5	1464317	RECOMMEND? OR SUGGEST? OR OPTION? OR CHOICE? OR SELECTION?
S6	308	S1 AND S2 AND S5
S7	3	S6 AND S3
S8	0	S6 AND S4
S9	1001	S1 AND S4
S10	8	S9 AND S3
S11	96	S9 AND (S2 OR S5)
S12	106	S11 OR S7 OR S10
S13	105	RD (unique items)
S14	57	S13 NOT PY>2001
S15	56	S14 NOT PD>20010515
File	35:Dissertation Abs Online 1861-2004/Nov	
		(c) 2004 ProQuest Info&Learning
File	583:Gale Group Globalbase(TM) 1986-2002/Dec 13	
		(c) 2002 The Gale Group
File	65:Inside Conferences 1993-2004/Dec W2	
		(c) 2004 BLDSC all rts. reserv.
File	2:INSPEC 1969-2004/Dec W1	
		(c) 2004 Institution of Electrical Engineers
File	233:Internet & Personal Comp. Abs. 1981-2003/Sep	
		(c) 2003 EBSCO Pub.
File	474:New York Times Abs 1969-2004/Dec 13	
		(c) 2004 The New York Times
File	475:Wall Street Journal Abs 1973-2004/Dec 13	
		(c) 2004 The New York Times
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Nov	
		(c) 2004 The HW Wilson Co.

15/5/1 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01958568 ORDER NO: AADAA-IMQ80064

**WWW-database integration via mobile agents**

Author: Trinh, Quang M.

Degree: M.Sc.

Year: 2001

Corporate Source/Institution: The University of Manitoba (Canada) (0303)

Adviser: Ken Barker

Source: VOLUME 42/01 of MASTERS ABSTRACTS.

PAGE 269. 72 PAGES

Descriptors: COMPUTER SCIENCE ; INFORMATION SCIENCE

Descriptor Codes: 0984; 0723

ISBN: 0-612-80064-4

This thesis studies the integration of two current topics in the Database Research and Development; namely, WWW-Databases and **Mobile Agents**. This thesis uses the Web as a medium and agents to locate and deliver information by exploring how to exploit multi-agent system in a heterogeneous database system. By using **metadata**, **Mobile Agents** can effectively provide users access to multiple data sources on the Web.. The goal is develop techniques so component databases can be added or removed dynamically thereby creating a flexible system model. Another contribution of this research is that the data transported by the agents are presented in the eXtensible Markup Language (XML) format, a markup language that has been widely used as **metadata** standard. XML is a good **choice** because it not only support enriched document structures but it also **formats data** results to support Business To Business (B2B) data exchange. By combining mature existing technologies with new technologies this architecture can support legacy systems while deploying the next generation of software. The key question to be addressed by this thesis is: How can **mobile agents** facilitate data exchange between various data sources while protecting the sources autonomy and providing the user with a globally consistent date view?

This is done while ensuring that: (1) &nbsp;The addition and removal of component databases is done dynamically and (2) &nbsp;Data exchanged on the WWW occurs while supporting existing applications.

15/5/17 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7306479 INSPEC Abstract Number: C2002-08-6160Z-015  
**Title: Mining a stream of transactions for customer patterns**  
Author(s): Lambert, D.; Pinheiro, J.C.  
Author Affiliation: Lucent Technol. Bell Labs., Murray Hill, NJ, USA  
Conference Title: KDD-2001. Proceedings of the Seventh ACM SIGKDD International Conference on Knowledge Discovery and Data Mining p.305-10  
Editor(s): Provost, F.; Srikant, R.  
Publisher: ACM, New York, NY, USA  
Publication Date: 2001 Country of Publication: USA xv+483 pp.  
ISBN: 1 58113 391 X Material Identity Number: XX-2001-02161  
U.S. Copyright Clearance Center Code: 1-58113-391-X/01/08...\$5.00  
Conference Title: Proceedings of KDD'01 ACM SIG KDD International Conference on Knowledge Discovery and Data Mining  
Conference Sponsor: ACM  
Conference Date: 26-29 Aug. 2001 Conference Location: San Francisco, CA, USA  
Language: English Document Type: Conference Paper (PA)  
Treatment: Theoretical (T); Experimental (X)  
Abstract: Transaction data can arrive at a ferocious rate in the order that transactions are completed. The data contain an enormous amount of information about customers, not just transactions, but extracting up-to-date customer information from an ever changing stream of data and mining it in real-time is a challenge. This paper describes a statistically principled approach to designing short, accurate summaries or **signatures** of high dimensional customer behavior that can be kept current with a stream of transactions. A **signature** database can then be used for **data mining** and to provide approximate answers to many kinds of queries about current customers quickly and accurately, as an empirical study of the calling patterns of 96,000 **wireless** customers who made about 18 million **wireless** calls over a three month period shows. (6 Refs)  
Subfile: C  
Descriptors: data analysis; **data mining**; real-time systems; statistical analysis; transaction processing; very large databases  
Identifiers: customer patterns; transaction stream mining; customer information; **data mining**; queries; calling patterns; **wireless** calls; dynamic database; histograms; incremental updates; large database; data analysis; multivariate distribution; real-time system; summaries; **signature** database  
Class Codes: C6160Z (Other DBMS); C6170K (Knowledge engineering techniques); C1140 (Probability and statistics)  
Copyright 2002, IEE

15/5/20 (Item 5 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7267780 INSPEC Abstract Number: C2002-06-6170-018  
Title: Cooperative Information Agents V. 5th International Workshop, CIA  
2001. Proceedings (Lecture Notes in Computer Science Vol.2182)

Editor(s): Klusch, M.; Zambonelli, F.  
Publisher: Springer-Verlag, Berlin, Germany  
Publication Date: 2001 Country of Publication: Germany xii+288 pp.  
ISBN: 3 540 42545 4 Material Identity Number: XX-2001-02419  
Conference Title: Cooperative Information Agents V. Proceedings  
Conference Date: 6-8 Sept. 2001 Conference Location: Modena, Italy  
Language: English Document Type: Conference Proceedings (CP)  
Abstract: The following topics are dealt with: personal assistance; interaction and avatars; information search and recommendation ; data warehousing and mining; collaborative information agents: systems and applications; trading Internet agents: auctions; trading Internet agents: strategies, negotiation, and design; issues of collaboration and coordination; information agents for mobile and wireless environments: practical issues and directions.

Subfile: C  
Descriptors: artificial intelligence; cooperative systems; groupware; software agents  
Identifiers: personal assistance; information search and recommendation ; data warehousing; data mining ; collaborative information agents; Internet agents; wireless environments  
Class Codes: C6170 (Expert systems and other AI software and techniques)  
; C6130G (Groupware); C1230 (Artificial intelligence)  
Copyright 2002, IEE

15/5/22 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7174768 INSPEC Abstract Number: B2002-03-6250F-168, C2002-03-7170-005

Title: An application of data mining for marketing in telecommunication

Author(s): Hyun-Moon Shin; Dong-Heon Jeong

Author Affiliation: ETRI, South Korea

Conference Title: PICMET '01. Portland International Conference on Management of Engineering and Technology. Proceedings Vol.1: Book of Summaries (IEEE Cat. No.01CH37199) Part vol.1 p.247 vol.1

Editor(s): Kocaoglu, D.F.; Anderson, T.R.

Publisher: PICMET - Portland State Univ, Portland, OR, USA

Publication Date: 2001 Country of Publication: USA xlii+508 pp.

ISBN: 1 890843 06 7 Material Identity Number: XX-2001-02018

Conference Title: PICMET'01. Portland International Conference on Management of Engineering and Technology. Proceedings Vol-1: Book of Summaries

Conference Date: 29 July-2 Aug. 2001 Conference Location: Portland, OR, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: Summary form only given as follows. Churn is the process of customer turnover. In **mobile** telecommunications market, several techniques can be employed to analyze why customers churn and which customers are most likely to churn in the future. Many **mobile** telecommunications firms have a **mobile** agency that provides handsets installation, maintenance, and replacement support for their customers. Although most of these have some salesmen to handle day-to-day maintenance and small-scale troubleshooting, expert advice is often required from the manufacturing companies for more complex maintenance and repair jobs. Prompt response to a request is needed to maintain customer satisfaction. Therefore, a **mobile** agency is usually set up to answer frequently encountered problems from the customers. Such information can be utilized by marketing departments to better target recruitment campaigns and by active monitoring of the customer call base to highlight customers who may, by the **signature** in their usage pattern, be thinking of migrating to another provider. As a collaborative research project with a multi-national company, this research investigated the application of **data mining** techniques to extract knowledge from the customer service database for two kinds of customer service activities: decision support and customer's complaint analysis. The information stored in the customer service database are classified as structured and unstructured textual data. The structured data are mined to enhance the decision making process for better management of resources and marketing of products. The unstructured data are mined to enhance the decision making process after it is converted to structured **data format**. In order to mine the structured data in the customer service database, a **data mining** process based on the **data mining** tool, Clementine was proposed. To support customer's complaint analysis, a **data mining** technique based on answer tree and neural network. This **data mining** technique can operate within a system to provide efficient online customer's complaint analysis over the Internet (and intranet).

Subfile: B C

Descriptors: **data mining**; marketing; **mobile** communication; neural net architecture; telecommunication services

Identifiers: **data mining**; customer turnover; **mobile** telecommunications market; telecommunication marketing; installation; maintenance; replacement support; day-to-day maintenance; small-scale troubleshooting; manufacturing companies; recruitment campaigns; customer call base monitoring; usage pattern; collaborative research project; multi-national company; knowledge extraction; customer service database; customer service activities; decision support; customer's complaint analysis; structured textual data; unstructured textual data; resources management; structured **data format**; Clementine **data mining** tool; answer tree; neural network; online customer's complaint analysis; Internet; intranet

Class Codes: B6250F (Mobile radio systems); C7170 (Marketing computing);

C6170K (Knowledge engineering techniques); C6160 (Database management systems (DBMS)); C5290 (Neural computing techniques)

Copyright 2002, IEE

15/5/23 (Item 8 from file: 2)  
DIALOG(R) File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7054843 INSPEC Abstract Number: C2001-11-7480-046  
Title: Decentralized data mining in complex CIMS networks using mobile agents

Author(s): Liu Kangping; Li Zhengzhi; Yang Fan; Tang Yazhe; Wang Zhiwen  
Author Affiliation: Inst. of Comput. Archit. & Networks, Xi'an Jiaotong Univ., China

Conference Title: 16th World Computer Congress 2000. Proceedings of Conference on Intelligent Information Processing p.163-7

Editor(s): Shi, Z.; Faltungs, B.; Musen, M.

Publisher: Publishing House of Electron. Ind, Beijing, China

Publication Date: 2000 Country of Publication: China vii+633 pp.

ISBN: 7 5053 6109 0 Material Identity Number: XX-2000-00638

Conference Title: Proceedings of IIP 2000: Intelligent Information Processing (Within World Computer Congress 2000)

Conference Date: 21-25 Aug. 2000 Conference Location: Beijing, China

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Like many management information systems (MIS), current network management systems (NMS) are "data rich, information poor". The rapidly emerging field of data mining appears to offer a solution to this problem. This paper presents a decentralized data mining paradigm, namely, DDMbMA, which introduces the mobile agent techniques into the data collection phase and data selection phase of data mining processes. The paradigm allows parallel activities on different platforms, locations and management domains, which results in efficiency and alleviation of network bandwidth requirement. (6 Refs)

Subfile: C

Descriptors: computer integrated manufacturing; computer network management; data mining ; distributed object management; software agents

Identifiers: decentralized data mining ; CIMS; mobile agents; management information systems; network management systems; DDMbMA; data collection; data selection ; network bandwidth requirement; computer integrated manufacturing; CORBA; Java

Class Codes: C7480 (Production engineering computing); C6170K (Knowledge engineering techniques); C5620 (Computer networks and techniques); C6150N (Distributed systems software); C6110J (Object-oriented programming)

Copyright 2001, IEE

15/5/31 (Item 16 from file: 2)  
DIALOG(R) File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6390861 INSPEC Abstract Number: B1999-12-6250F-045, C1999-12-6150N-029  
**Title:** Open implementation of a mobile communication system  
Author(s): Truyen, E.; Robben, B.; Kenens, P.; Matthijs, F.; Michiels, S.  
; Joosen, W.; Verbaeten, P.  
Author Affiliation: Dept. of Comput. Sci., Katholieke Univ., Leuven,  
Belgium  
Conference Title: Object-Oriented Technology. ECOOP'98 Workshop Reader.  
ECOOP'98 Workshops, Demos, and Posters. Proceedings p.315-16  
Editor(s): Demeyer, S.; Bosch, J.  
Publisher: Springer-Verlag, Berlin, Germany  
Publication Date: 1998 Country of Publication: Germany xxii+573 pp.  
ISBN: 3 540 65460 7 Material Identity Number: XX-1999-01939  
Conference Title: Object-Oriented Technology. ECOOP'98 Workshop Reader  
Conference Date: 20-24 July 1998 Conference Location: Brussels,  
Belgium  
Language: English Document Type: Conference Paper (PA)  
Treatment: Practical (P)  
Abstract: This article applies the concept of open implementation. In object-oriented programming an open implementation is often realized by means of a so-called meta-object protocol (MOP). We use this technique in the scope of the telematica project SMove. This article presents two cases in which an MOP may be used, namely in device selection logic and in replication protocols. (0 Refs)  
Subfile: B C  
Descriptors: application program interfaces; automotive electronics;  
distributed object management; meta data ; mobile communication;  
object-oriented programming; protocols  
Identifiers: mobile communication system; open implementation;  
object-oriented programming; meta-object protocol; telematica project;  
SMove; device selection logic; replication protocols; SMove enabled  
vehicles; Application Programming Interface  
Class Codes: B6250F (Mobile radio systems); B8520B (Automobile  
electronics); B6210L (Computer communications); C6150N (Distributed systems  
software); C6110J (Object-oriented programming); C5640 (Protocols); C7445  
(Traffic engineering computing)  
Copyright 1999, IEE

Set	Items	Description
S1	343360	WIRELESS OR CELLULAR? OR WAP OR MOBILE OR WIRE()LESS? ? OR CELLPHONE? OR CELL()PHONE?
S2	347213	(CONTEXT? OR ENVIRONMENT? OR SURROUNDING? OR TIME? OR TOUCH? OR LIGHT? OR POSITION? OR COMPASS? OR TEMPERATUR? OR ACCELERATION?) (3N) (SIGNAL? OR INDICAT? OR CUE? ?)
S3	12146	SIGNATURE? OR DIGITAL?() (SIG OR SIGNING OR SIGNED) OR PERSONAL() IDENTIFIER?
S4	1613761	METADATA? OR (DEFINITION OR DATA OR META OR FORMAT?) (N) (INFORMATION OR DATA) OR TAG OR TAGS
S5	28139	RECOMMEND? OR SUGGEST? OR OPTIONS OR CHOICES
S6	23	S1 AND S2 AND S3
S7	2852	S1 AND S2 AND S4
S8	9	S5 AND S7
S9	2384	(TRANSMIT? OR TRANSMISSION? OR SEND? OR RECEIV? OR CONVEY?) AND S7
S10	5752	S4 (3N) VECTOR?
S11	5	S9 AND S10
S12	37	S8 OR S11 OR S6
S13	10	S12 AND IC=G06F?
S14	10	S12 AND IC=H04L?
S15	17	S13 OR S14
S16	17	IDPAT (sorted in duplicate/non-duplicate order)
S17	17	IDPAT (primary/non-duplicate records only)
S18	0	S1 AND METADATA() VECTOR?
S19	0	METADATA(2N) VECTOR?
S20	72	S1 AND METADATA
S21	338	S1 AND S4 AND S3
S22	16	S21 AND (S2 OR S5)
S23	12	S22 NOT S17
S24	3	S23 AND IC=(G06F? OR H04L?)
S25	3	IDPAT (sorted in duplicate/non-duplicate order)
S26	3	IDPAT (primary/non-duplicate records only)
S27	108	S1 (4N) S4 AND S5
S28	0	S27 AND (METADATA? OR META()DATA)
S29	0	S27 AND (DATA() (MINE? OR MINING) OR DATAMINING)
S30	140	S1 AND (METADATA OR META()DATA)
S31	115453	MC=(T01-J05B3? OR T01-J05B4F? OR T01-N02B1? OR T01-S03?)
S32	12529	S31 AND S1
S33	12	S32 AND S27
S34	12	S33 NOT (S17 OR S24)
S35	1	S34 NOT AD>20010515
S36	64	S30 AND S31
S37	1	S36 AND (S2 OR S5)
S38	3	S36 AND (ECOMMERCE? OR (ELECTRONIC OR DIGITAL OR INTERNET) (-) COMMERCE OR BUSINESS)
S39	5	S35 OR S37 OR S38

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200479

(c) 2004 Thomson Derwent

17/5/6 (Item 6 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014669451 \*\*Image available\*\*

WPI Acc No: 2002-490155/200252

XRPX Acc No: N02-387453

Method of providing travel-related information to mobile communications device by calculating location and time information of travel service serving to fulfil request, and providing output at mobile communications device

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG )

Inventor: SARAGA P; YULE A T

Number of Countries: 024 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200241028	A2	20020523	WO 2001EP13153	A	20011112	200252 B
US 20020062192	A1	20020523	US 20013067	A	20011102	200252
KR 2002069360	A	20020830	KR 2002709188	A	20020716	200309
CN 1418343	A	20030514	CN 2001806727	A	20011112	200355
EP 1337870	A2	20030827	EP 2001996754	A	20011112	200357
			WO 2001EP13153	A	20011112	
JP 2004514207	W	20040513	WO 2001EP13153	A	20011112	200435
			JP 2002542898	A	20011112	
US 6745125	B2	20040601	US 20013067	A	20011102	200436

Priority Applications (No Type Date): GB 200028029 A 20001117

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200241028 A2 E 20 G01S-005/00

Designated States (National): CN JP KR

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

US 20020062192 A1 G01C-021/26

KR 2002069360 A G06F-019/00

CN 1418343 A G06F-017/30

EP 1337870 A2 E G01S-005/00 Based on patent WO 200241028

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

JP 2004514207 W 33 G08G-001/13 Based on patent WO 200241028

US 6745125 B2 G01C-021/26

Abstract (Basic): WO 200241028 A2

NOVELTY - At least one signal at a mobile communications device (12) indicative of its position and also indicative of a travel-related request initiated at the device (12). Travel service information is retrieved from a transport service provider and responds to the travel-related request by calculating location and time information of a travel service (14) serving to fulfil the request.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

(a) a communication system including a mobile communication device and arranged for providing travel-related information to a mobile communication device

(b) a communication terminal for a data network arranged to receive positional information and a request for travel related information from a mobile communication device

(c) a mobile communication device

USE - For providing travel-related information to a mobile communications device.

ADVANTAGE - Allows a user to receive information confirming the location of one, or more, potentially suitable pick-up points whilst also confirming, for example, the time at which the transport service will arrive at the pick-up point. The user is then readily presented with information sufficient to allow for his/her initial travel to the pick-up point even if they are unfamiliar with their current locality whilst also presenting information concerning how long they might have to wait for the transport service to arrive at pick-up point. An improved user interaction with, for example, a public transport system

render the public transport network more easily, and efficiently, used, such transport **options** should become more appealing to the general public and so should advantageously serve in increasing the scale of use of the public transport network.

DESCRIPTION OF DRAWING(S) - The drawing is a schematic block diagram illustrating a system according to an embodiment of the present invention.

mobile communications device (12)  
travel service (14)  
pp; 20 DwgNo 1/4

Title Terms: METHOD; TRAVEL; RELATED; INFORMATION; **MOBILE** ; COMMUNICATE; DEVICE; CALCULATE; LOCATE; TIME; INFORMATION; TRAVEL; SERVICE; SERVE; REQUEST; OUTPUT; **MOBILE** ; COMMUNICATE; DEVICE

Derwent Class: W01; W02; W06; X22

International Patent Class (Main): G01C-021/26; G01S-005/00; **G06F-017/30** ; **G06F-019/00** ; G08G-001/13

International Patent Class (Additional): G01C-021/00; G01S-005/14; **G06F-017/60** ; H04Q-007/20; H04Q-007/34

File Segment: EPI

17/5/8 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014405981 \*\*Image available\*\*

WPI Acc No: 2002-226684/200228

XRPX Acc No: N02-174033

Information provision method for pager, involves determining whether to send information about event to user, based on information sources

Patent Assignee: INTEL CORP (ITLC )

Inventor: SENGUPTA U; THAKKAR S

Number of Countries: 096 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200186547	A2	20011115	WO 2001US14369	A	20010502	200228 B
AU 200161170	A	20011120	AU 200161170	A	20010502	200228
KR 2003020875	A	20030310	KR 2002714977	A	20021108	200349
EP 1368765	A2	20031210	EP 2001935042	A	20010502	200382
			WO 2001US14369	A	20010502	
JP 2004507805	W	20040311	JP 2001583420	A	20010502	200419
			WO 2001US14369	A	20010502	
CN 1476571	A	20040218	CN 2001809174	A	20010502	200430

Priority Applications (No Type Date): US 2000566620 A 20000508

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

WO 200186547	A2	E	27	G06F-017/60	
--------------	----	---	----	-------------	--

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200161170	A				Based on patent WO 200186547
--------------	---	--	--	--	------------------------------

KR 2003020875	A			G06F-017/60	
---------------	---	--	--	-------------	--

EP 1368765	A2	E		G06F-017/60	Based on patent WO 200186547
------------	----	---	--	-------------	------------------------------

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

JP 2004507805	W		43	G06F-017/60	Based on patent WO 200186547
---------------	---	--	----	-------------	------------------------------

CN 1476571	A			G06F-017/60	
------------	---	--	--	-------------	--

Abstract (Basic): WO 200186547 A2

NOVELTY - The relevance of an event to an user is determined based on the service choices of the user. The relevance of information sources having data indicating real-time states of the user to the event is determined. Based on the information sources, the information about the event to be sent to the user is determined.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Article having computer readable medium storing computer executable instructions;

(b) Information providing system

USE - For communication device such as pager, cellular phone, personal digital assistant, telephone, computer and other wireless communication devices.

ADVANTAGE - User receives real-time events of his own choice.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart of operation of context interpretation engine.

pp; 27 DwgNo 3/3

Title Terms: INFORMATION; PROVISION; METHOD; PAGE; DETERMINE; SEND; INFORMATION; EVENT; USER; BASED; INFORMATION; SOURCE

Derwent Class: T01; W01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06F-013/00

File Segment: EPI

17/5/10 (Item 10 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013833654  
WPI Acc No: 2001-317866/200134  
XRPX Acc No: N01-228259

Multifunctional communications device uses combination of personal electronic signature or password as digital signature or watermark and GPS signal for location and time determination

Patent Assignee: BALTUS R (BALT-I)

Inventor: BALTUS R; WOOP M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19940649	A1	20010301	DE 1040649	A	19990826	200134 B

Priority Applications (No Type Date): DE 1040649 A 19990826

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 19940649	A1	2	H04L-009/32	

Abstract (Basic): DE 19940649 A1

NOVELTY - The device has a computer, a modem, a text checker with an LCD display and keyboard function, a GPS receiver, a chip card reader and a static or mobile telephone that provides a data file to be sent or a telephone message with a combination of a personal electronic signature or password as a digital signature or watermark and a GPS signal for location and time determination as a digital seal or watermark, whereby biometric characteristic identification fields of and other data or programs are stored on the chip card..

USE - For both telephony and electronic signing.

ADVANTAGE - Enables both telephony and electronic signing with positive caller identification without sending a data file such as an e-mail and also addition of an accurate time and location statement as a digital seal.

pp; 2 DwgNo 0/0

Title Terms: MULTIFUNCTION; COMMUNICATE; DEVICE; COMBINATION; PERSON; ELECTRONIC; SIGNATURE ; PASSWORD; DIGITAL; SIGNATURE ; WATERMARK; GROUP ; SIGNAL; LOCATE; TIME; DETERMINE

Derwent Class: S05; T01; T04; W01; W06

International Patent Class (Main): H04L-009/32

International Patent Class (Additional): G06C-009/00; G06K-009/78; H04M-001/66

File Segment: EPI

17/5/11 (Item 11 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013147199  
WPI Acc No: 2000-319071/200028  
XRPX Acc No: N00-239375

Time stamping data with official time e.g. for electronic signature on digital documents by using decrypted official time signal to set internal time source

Patent Assignee: MAZ MIKROELEKTRONIK ANWENDUNGSZENTRUM (MAZM-N)

Inventor: BECKER B; FISCHER F

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19845199	A1	20000406	DE 1045199	A	19981001	200028 B

Priority Applications (No Type Date): DE 1045199 A 19981001

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 19845199	A1	4	H04Q-007/06	

Abstract (Basic): DE 19845199 A1

NOVELTY - The method involves supplying a local and/or global official time signal to a mobile network operator (e.g. GSM). The time is encrypted and decrypted based on the technology of the network operator before being transmitted to the customer. The decrypted official time signal is used to set an internal time source. Digital data are time-stamped with this official time signal. The time-stamped data are encrypted and provided with a digital signature

USE - For protecting documents from manipulation.

ADVANTAGE - Prevents manipulation of a time signal between a reference signal source and the receiver module of the end user.

pp; 4 DwgNo 0/0

Title Terms: TIME; STAMP; DATA; OFFICE; TIME; ELECTRONIC; SIGNATURE ;  
DIGITAL; DOCUMENT; OFFICE; TIME; SIGNAL; SET; INTERNAL; TIME; SOURCE

Derwent Class: S04; T01; T05; W01

International Patent Class (Main): H04Q-007/06

International Patent Class (Additional): G04C-011/02; G04G-007/02;  
G06F-001/14 ; H04L-009/00

File Segment: EPI

17/5/17 (Item 17 from file: 347)  
DIALOG(R) File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

03936830 \*\*Image available\*\*  
SYSTEM FOR CERTIFYING MOBILE COMMUNICATION TERMINAL STATION

PUB. NO.: 04-301930 [JP 4301930 A]  
PUBLISHED: October 26, 1992 (19921026)  
INVENTOR(s): SASAKI TETSUYA  
URABE KENZO  
APPLICANT(s): KOKUSAI ELECTRIC CO LTD [000112] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 03-087380 [JP 9187380]  
FILED: March 28, 1991 (19910328)  
INTL CLASS: [5] H04B-007/26; H04L-009/18  
JAPIO CLASS: 44.2 (COMMUNICATION -- Transmission Systems); 26.2  
(TRANSPORTATION -- Motor Vehicles); 44.3 (COMMUNICATION --  
Telegraphy)  
JOURNAL: Section: E, Section No. 1332, Vol. 17, No. 125, Pg. 90, March  
16, 1993 (19930316)

#### ABSTRACT

PURPOSE: To reduce the traffic amount of the number of times for communication, to decrease the number of **times** for exchanging **signals** and to reduce the probability of a retest caused by line error by transmitting a certifying signal only once from a **mobile** station so as to certify the **mobile** station by a base station.

CONSTITUTION: When originating a call from the **mobile** station, a **signature** response signal preparing circuit 11 prepares a **signature** response signal RES1 with **time** information as a reference according to an identification number ID and the key of the own station and transmits the signal to the base station. A **signature** response signal collation circuit 12 of the base station receives the **signature** response signal RES1 from the **mobile** station, executes collation and judgment to show whether the **mobile** station is proper or not and certifies the permission or inhibition of communication. Namely, since the **signature** response signal RES1 transmitted as a call signal by the **mobile** station simultaneously with the ID and the **signature** response signal prepared for the collation of the base station are prepared by a random number and the key generated by the time information containing calendar years, the certification is enabled by once transmitting the call signal from the **mobile** station.

39/5/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015215278 \*\*Image available\*\*

WPI Acc No: 2003-275815/200327

XRPX Acc No: N03-219055

Metadata management method for computer system, involves altering metadata of content, in response to corresponding prestored metadata

Patent Assignee: DEBACKER G S (DEBA-I); DEBIQUE K A (DEBI-I); OMOIGUI N D (OMOI-I); STEWART D E (STEW-I)

Inventor: DEBACKER G S; DEBIQUE K A; OMOIGUI N D; STEWART D E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020184180	A1	20021205	US 2001820088	A	20010327	200327 B

Priority Applications (No Type Date): US 2001820088 A 20010327

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020184180	A1	41	G06F-007/00	

Abstract (Basic): US 20020184180 A1

NOVELTY - The **metadata** corresponding to several associated contents, are stored. The **metadata** associated with one of the contents, is altered in response to corresponding **metadata**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) computer-readable media storing **metadata** management program; and

(2) **metadata** management system.

USE - For managing **metadata** associated with several contents such as songs, movies or audio/video clips, etc., stored in various computer readable media such as compact disk (CD) and digital versatile disk (DVD) in computer system including desktop computers, laptop computers, workstations, handheld or portable computers, PDA, **cellular** phones, Internet devices, game consoles, etc., used in homes and **business** applications.

ADVANTAGE - The **metadata** associated with corresponding contents can be easily altered when required.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the **metadata** management network method.

pp; 41 DwgNo 1/8

Title Terms: MANAGEMENT; METHOD; COMPUTER; SYSTEM; ALTER; CONTENT; RESPOND; CORRESPOND

Derwent Class: T01; T05

International Patent Class (Main): G06F-007/00

File Segment: EPI

Set	Items	Description
S1	21	AU=(SALMENKAITA J? OR SALMENKAITA, J?)
S2	30	AU=(SORVARI A? OR SORVARI, A?)
S3	14	S1 AND S2
S4	3	(S1 OR S2) AND IC=G06F-007?
S5	16	S3 OR S4
S6	16	IDPAT (sorted in duplicate/non-duplicate order)
S7	9	IDPAT (primary/non-duplicate records only)

File 344:Chinese Patents Abs Aug 1985-2004/May

(c) 2004 European Patent Office

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)

(c) 2004 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2004/Dec W01

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20041209,UT=20041202

(c) 2004 WIPO/Univentio

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200479

(c) 2004 Thomson Derwent

7/5/3 (Item 3 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

016089169 \*\*Image available\*\*  
WPI Acc No: 2004-247045/200423  
XRPX Acc No: N04-195975

User access enabling method for phone, involves obtaining network activity data and short-cut data along with preference instruction, and processing network activity in accordance with preference instruction  
Patent Assignee: NOKIA CORP (OYNO ); NOKIA INC (OYNO )  
Inventor: KAHARI M; MANNILA H; SALMENKAITA J ; SORVARI A ; TOIVONEN H;  
KAEHAERI M

Number of Countries: 105 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040043758	A1	20040304	US 2002230111	A	20020829	200423 B
WO 200421613	A1	20040311	WO 2003IB3575	A	20030828	200423
AU 2003250487	A1	20040319	AU 2003250487	A	20030828	200462

Priority Applications (No Type Date): US 2002230111 A 20020829

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20040043758 A1 66 H04M-003/42  
WO 200421613 A1 E H04H-007/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

AU 2003250487 A1 H04H-007/00 Based on patent WO 200421613

Abstract (Basic): US 20040043758 A1

NOVELTY - The method involves obtaining network activity data and short-cut data for a wireless device along with a preference instruction. The network activity data is processed in accordance with a preference instruction. A recommended service is generated from a number of available services in the wireless device based on the preference instruction. The recommended service has a short-cut associated to it for easy access.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) a system for enabling user access to serve through a wireless device

(b) a wireless device.

USE - Used for enabling access to user. e.g. mobile phone or a personal digital assistant (PDA) user to an Internet service.

ADVANTAGE - The method enables the user to access via hyperlinks all the services required by him. The method supply network activity data and short-cut data for a wireless device along with a preference instruction, thereby making the entry of link faster.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block representation of a mobile telephone handset communicating through a public land mobile network and through a gateway to remote data servers.

Cellular handset (MS1)

Microphone (2)

Liquid crystal display device (5)

Gateway (18)

Server (19)

pp; 66 DwgNo 1/17

Title Terms: USER; ACCESS; ENABLE; METHOD; TELEPHONE; OBTAIN; NETWORK; ACTIVE; DATA; SHORT; CUT; DATA; PREFER; INSTRUCTION; PROCESS; NETWORK; ACTIVE; ACCORD; PREFER; INSTRUCTION

Derwent Class: W01

7/5/6 (Item 6 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015067713 \*\*Image available\*\*

WPI Acc No: 2003-128229/200312

XRPX Acc No: N03-101824

User privacy management method for wide area network, involves recognizing service opportunities of service operator and determining privacy level at which communication is then conducted

Patent Assignee: NOKIA CORP (OYNO ); NOKIA INC (OYNO ); HUHTALA Y (HUHT-I); KLEMETTINEN M (KLEM-I); NORDMAN I (NORD-I); SALMENKAITA J (SALM-I); SORVARI A (SORV-I); TOIVONEN H (TOIV-I); VANSKA M (VANS-I)

Inventor: HUHTALA Y; KLEMETTINEN M; NORDMAN I; SALMENKAITA J ; SORVARI A ; TOIVONEN H; VANSKA M; VAENSKAE M

Number of Countries: 101 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020147766	A1	20021010	US 2001824781	A	20010404	200312 B
WO 200282205	A2	20021017	WO 2002IB1066	A	20020403	200312
EP 1405197	A2	20040407	EP 2002722539	A	20020403	200425
			WO 2002IB1066	A	20020403	
AU 2002253424	A1	20021021	AU 2002253424	A	20020403	200433

Priority Applications (No Type Date): US 2001824781 A 20010404

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020147766 A1 30 G06F-015/16

WO 200282205 A2 E G06F-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

EP 1405197 A2 E G06F-015/16 Based on patent WO 200282205

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

AU 2002253424 A1 G06F-015/16 Based on patent WO 200282205

Abstract (Basic): US 20020147766 A1

NOVELTY - The service opportunities of a service operator on a user operated device such as BLUETOOTH-enabled wireless communication device, is recognized and the privacy level of the communication with the operator, is determined. The communication with the operator is conducted at the determined privacy level.

USE - For user privacy management in mobile communication network and wide area network, local area network and personal area network.

ADVANTAGE - Since the communication is conducted at the predetermined privacy level, the service operators cannot identify the users.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the wireless user device.

pp; 30 DwgNo 3A/8

Title Terms: USER; PRIVATE; MANAGEMENT; METHOD; WIDE; AREA; NETWORK; RECOGNISE; SERVICE; SERVICE; OPERATE; DETERMINE; PRIVATE; LEVEL; COMMUNICATE; CONDUCTING

Derwent Class: T01; W01

International Patent Class (Main): G06F-000/00; G06F-015/16

File Segment: EPI

7/5/7 (Item 7 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014980615 \*\*Image available\*\*  
WPI Acc No: 2003-041130/200303  
XRPX Acc No: N03-032227

Secured internet access enabling method for WAP enabled wireless devices, involves pairing selected activity corresponding to preferences of internet services, with current context result

Patent Assignee: NOKIA CORP (OYNO ); NOKIA INC (OYNO ); SALMENKAITA J (SALM-I); SORVARI A (SORV-I)

Inventor: SALMENKAITA J ; SORVARI A

Number of Countries: 101 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200293422	A1	20021121	WO 2002IB1551	A	20020507	200303 B
US 20020188589	A1	20021212	US 2001854635	A	20010515	200305
US 20030004937	A1	20030102	US 2001854635	A	20010515	200305
			US 2001950773	A	20010913	
EP 1388093	A1	20040211	EP 2002727845	A	20020507	200411
			WO 2002IB1551	A	20020507	
AU 2002258035	A1	20021125	AU 2002258035	A	20020507	200452

Priority Applications (No Type Date): US 2001950773 A 20010913; US 2001854635 A 20010515

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200293422	A1	E 102	G06F-017/30	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 20020188589 A1 G06F-007/00

US 20030004937 A1 G06F-007/00 CIP of application US 2001854635

EP 1388093 A1 E G06F-017/30 Based on patent WO 200293422

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

AU 2002258035 A1 G06F-017/30 Based on patent WO 200293422

Abstract (Basic): WO 200293422 A1

NOVELTY - Sensor signals received from a current environment of a wireless device (100) are processed by a context inference engine to output a current context result. A selected activity corresponding to preferences of internet services is paired with the current context result to form a context activity pair for searching a database of recommendations for internet services. The searched recommendations are provided to the user of the wireless device.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Secured internet access enabling apparatus;
- (2) Wireless device;
- (3) Internet recommendation service provision method;
- (4) Computer program product for enabling secured internet access;
- (5) Secured internet access enabling system; and
- (6) Network server enabling method.

USE - For enabling secured internet access to WAP enabled wireless devices such as mobile phone and personal digital assistants (PDA).

ADVANTAGE - Provides enhanced privacy of end users in distributed recommendation systems by pairing selected activity corresponding to preferences of internet services, with current context result, to search database of recommendations for internet services.

DESCRIPTION OF DRAWING(S) - The figure shows the network process diagram illustrating the interaction of the user's wireless device and

the network server.  
Wireless device (100)  
pp; 102 DwgNo 2A/6  
Title Terms: SECURE; ACCESS; ENABLE; METHOD; ENABLE; WIRELESS; DEVICE; PAIR  
; SELECT; ACTIVE; CORRESPOND; SERVICE; CURRENT; CONTEXT; RESULT  
Derwent Class: T01  
International Patent Class (Main): G06F-007/00 ; G06F-017/30  
File Segment: EPI

7/5/8 (Item 8 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01728407

SYSTEM AND METHOD FOR PROVIDING CONTEXT SENSITIVE RECOMMENDATIONS TO  
DIGITAL SERVICES  
Système et procédé fournant des recommandations contextuelles à des  
services numériques

PATENT ASSIGNEE:

Nokia Corporation, (2963881), Keilalahdentie 4, 02150 Espoo, (FI),  
(Applicant designated States: all)

INVENTOR:

SORVARI, Antti , Landbontie 35, FIN-01100 Itasalmi, (FI)  
KAHARI, Markus, Metsapurontie 20 C 21, FIN-00630 Helsinki, (FI)  
TOIVONEN, Hannu, Kytopolku 39F, FIN-00740 Helsinki, (FI)  
MANNILA, Heikki, Lintuparvenpuisto 6, FIN-02660 Espoo, (FI)  
SALMENKAITA, Jukka-Pekka , Kuusitie 15 A 32, FIN-00270 Helsinki, (FI)

PATENT (CC, No, Kind, Date):

WO 2004021613 040311

APPLICATION (CC, No, Date): EP 2003791101 030828; WO 2003IB3575 030828

PRIORITY (CC, No, Date): US 230111 020829

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: H04H-007/00

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 040506 A1 International application. (Art. 158(1))

Application: 040506 A1 International application entering European  
phase

LANGUAGE (Publication, Procedural, Application): English; English; English

Set	Items	Description
S1	388937	BLUETOOTH OR WIRELESS OR CELLULAR?(N) (TELECOMMUN? OR COMMUNICAT? OR DEVICE? OR UNIT? ?) OR WAP OR MOBILE OR WIRE()LESS - OR WIFI OR CELLPHONE? OR CELL()PHONE?
S2	21480	(CONTEXT? OR ENVIRONMENT? OR SURROUNDING? OR TIME? OR TOUCH? OR LIGHT? OR POSITION? OR COMPASS? OR TEMPERATUR? OR ACCELERATION?) (3N) (SIGNAL? OR INDICATOR? OR CUE?)
S3	49	S1(3N) (SIGNATURE? OR DIGITAL?()) (SIG OR SIGNING OR SIGNED) - OR PERSONAL() (KEY OR KEYS OR IDENTIFIER OR ID))
S4	49	S1(3N) (METADATA? OR DATAMIN? OR DATA() (MINE? OR MINING) OR META() (INFORMATION OR DATA) OR TAB OR TAGS OR (LABEL? OR FORMAT?) (N) DATA)
S5	4379709	RECOMMEND? OR SUGGEST? OR OPTION? OR CHOICE? OR SELECTION?
S6	24	(S3 OR S4) AND (S2 OR S5)
S7	24	RD (unique items)
S8	13	S7 NOT PY>2001
S9	13	S8 NOT PD>20010515
File 387:The Denver Post 1994-2004/Dec 13		
		(c) 2004 Denver Post
File 492:Arizona Repub/Phoenix Gaz 19862002/Jan 06		
		(c) 2002 Phoenix Newspapers
File 494:St LouisPost-Dispatch 1988-2004/Dec 12		
		(c) 2004 St Louis Post-Dispatch
File 498:Detroit Free Press 1987-2004/Dec 09		
		(c) 2004 Detroit Free Press Inc.
File 631:Boston Globe 1980-2004/Dec 12		
		(c) 2004 Boston Globe
File 633:Phil.Inquirer 1983-2004/Dec 09		
		(c) 2004 Philadelphia Newspapers Inc
File 638:Newsday/New York Newsday 1987-2004/Dec 10		
		(c) 2004 Newsday Inc.
File 640:San Francisco Chronicle 1988-2004/Dec 14		
		(c) 2004 Chronicle Publ. Co.
File 641:Rocky Mountain News Jun 1989-2004/Dec 10		
		(c) 2004 Scripps Howard News
File 702:Miami Herald 1983-2004/Dec 13		
		(c) 2004 The Miami Herald Publishing Co.
File 703:USA Today 1989-2004/Dec 13		
		(c) 2004 USA Today
File 704:(Portland)The Oregonian 1989-2004/Dec 12		
		(c) 2004 The Oregonian
File 713:Atlanta J/Const. 1989-2004/Dec 12		
		(c) 2004 Atlanta Newspapers
File 714:(Baltimore) The Sun 1990-2004/Dec 13		
		(c) 2004 Baltimore Sun
File 715:Christian Sci.Mon. 1989-2004/Dec 14		
		(c) 2004 Christian Science Monitor
File 725:(Cleveland)Plain Dealer Aug 1991-2004/Dec 12		
		(c) 2004 The Plain Dealer
File 735:St. Petersburg Times 1989- 2004/Dec 12		
		(c) 2004 St. Petersburg Times
File 476:Financial Times Fulltext 1982-2004/Dec 14		
		(c) 2004 Financial Times Ltd
File 477:Irish Times 1999-2004/Dec 13		
		(c) 2004 Irish Times
File 710:Times/Sun.Times(London) Jun 1988-2004/Dec 11		
		(c) 2004 Times Newspapers
File 711:Independent(London) Sep 1988-2004/Dec 13		
		(c) 2004 Newspaper Publ. PLC
File 756:Daily/Sunday Telegraph 2000-2004/Dec 14		
		(c) 2004 Telegraph Group
File 757:Mirror Publications/Independent Newspapers 2000-2004/Dec 13		
		(c) 2004

Set	Items	Description
S1	6224	BLUETOOTH OR WIRELESS OR CELLULAR?(N) (TELECOMMUN? OR COMMUNICAT? OR DEVICE? OR UNIT? ?) OR WAP OR MOBILE OR WIRE()LESS - OR WIFI OR CELLPHONE? OR CELL()PHONE?
S2	86	(CONTEXT? OR ENVIRONMENT? OR SURROUNDING? OR TIME? OR TOUCH? OR LIGHT? OR POSITION? OR COMPASS? OR TEMPERATUR? OR ACCELERATION?) (3N) (SIGNAL? OR INDICATOR? OR CUE?)
S3	5	S1(3N) (SIGNATURE? OR DIGITAL?() (SIG OR SIGNING OR SIGNED) - OR PERSONAL() (KEY OR KEYS OR IDENTIFIER OR ID))
S4	16	S1(3N) (METADATA? OR DATAMIN? OR DATA() (MINE? OR MINING) OR META() (INFORMATION OR DATA) OR TAB OR TAGS OR (LABEL? OR FORMAT?) (N) DATA)
S5	11014	RECOMMEND? OR SUGGEST? OR OPTION? OR CHOICE? OR SELECTION?
S6	5	(S3 OR S4) AND (S2 OR S5)
S7	5	S6 NOT PY>2001
S8	2	S7 NOT PD>20010515

File 256:TecInfoSource 82-2004/Nov  
(c) 2004 Info.Sources Inc